

**ADJUSTABLE SENSITIVITY, GENETIC MOLECULAR INTERACTION
SYSTEMS, INCLUDING PROTEIN-PROTEIN INTERACTION SYSTEMS FOR
DETECTION AND ANALYSIS**

ABSTRACT

A method for detecting interactions between first and second interacting molecules a variable sensitivity. This variable sensitivity may be obtained by providing for the overexpression of either a bait hybrid protein containing a
5 DNA binding domain (desensitization) or a prey hybrid protein containing the DNA activation domain for a reporter gene (enhanced sensitivity). The use of exogenous activators of one or the other according to the needs of a particular system is readily accomplished.

10